

ABSTRACT

Metal Deposition

A method for electroless plating of metal on a laser-patterned substrate. A substrate is provided on which both a thermal imaging layer and catalytic layer are deposited. On exposure to a laser beam, sufficient levels of radiation are converted to heat in the thermal imaging layer to render the exposed regions of the adjacent catalytic layer inactive. The laser-patterned substrate is then exposed to a reaction solution which initiates the growth of a metal film on the unexposed regions of the catalytic layer.